

A57 Link Roads

TR010034

2.7 Engineering Drawings and Sections Plans

APFP Regulation 5(2)(o)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009

November 2021

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

A57 Link Roads

Development Consent Order 202[x]

2.7 Engineering Drawings and Sections Plans

Regulation Number:	Regulation 5(2)(o)
Planning Inspectorate Scheme Reference	TR010034
Application Document Reference	TR010034/APP/2.7
Author:	A57 Link Roads Project Team, National Highways and Atkins

Version	Date	Status of Version
Rev 2.0	November 2021	Section 51 Advice
Rev 1.0	June 2021	DCO Application

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1. Introduction

1.1 Introduction and purpose of this document

- 1.1.1 National Highways (the “Applicant”) has applied to the Secretary of State for Development Consent Order (“DCO”) to determine the Applicant’s proposals for the creation of new link roads and alteration to the existing A57, A57 Link Roads (the “Scheme”). The application is submitted to the Planning Inspectorate (the “Inspectorate”) in accordance with section 37 of the Planning Act 2008 (the “2008 Act”).
- 1.1.2 This document comprises part of the suite of Application documents and is submitted to comply with Regulation 5(2)(o), 5(2)(p) and 6(2) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (as amended), which requires:
- 5(2)(o) ‘any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings and structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping;’*
- 6(2) ‘If the application is for highway related development or for the construction or alteration of a railway, it must be accompanied by section drawings to suitable horizontal and vertical scales, which show, by reference to Ordnance Survey or Chart datum*
- (a) the levels of the proposed works, including in particular and where relevant:*
- (i) ground levels;*
 - (ii) the height of every proposed bridge, viaduct, aqueduct, embankment and elevated guideway;*
 - (iii) the depth of every proposed cutting and tunnel;*
 - (iv) the levels of the bed of any tidal waters or inland waterway in which it is proposed that any works should be situated;*
 - (v) the height of every structure or device (including a cable, but not catenary and related equipment) intended to be erected above, on or below the surface of, or on or beneath the bed of tidal waters or an inland waterway; and*
 - (vi) drainage outfall details for highways.*
- (b) a cross section of every intended tunnel and any altered gradient of a carriageway or a way forming part of a guided transport system on either side of every level crossing, bridge, tunnel or underpass which would carry the carriageway or way or through which it would pass.’*
- 1.1.3 This document should be read alongside and is informed by the other Application documents, in particular:
- Schedule 1 to the Draft Development Consent Order (APP-020)
 - Works Plans (APP-008)

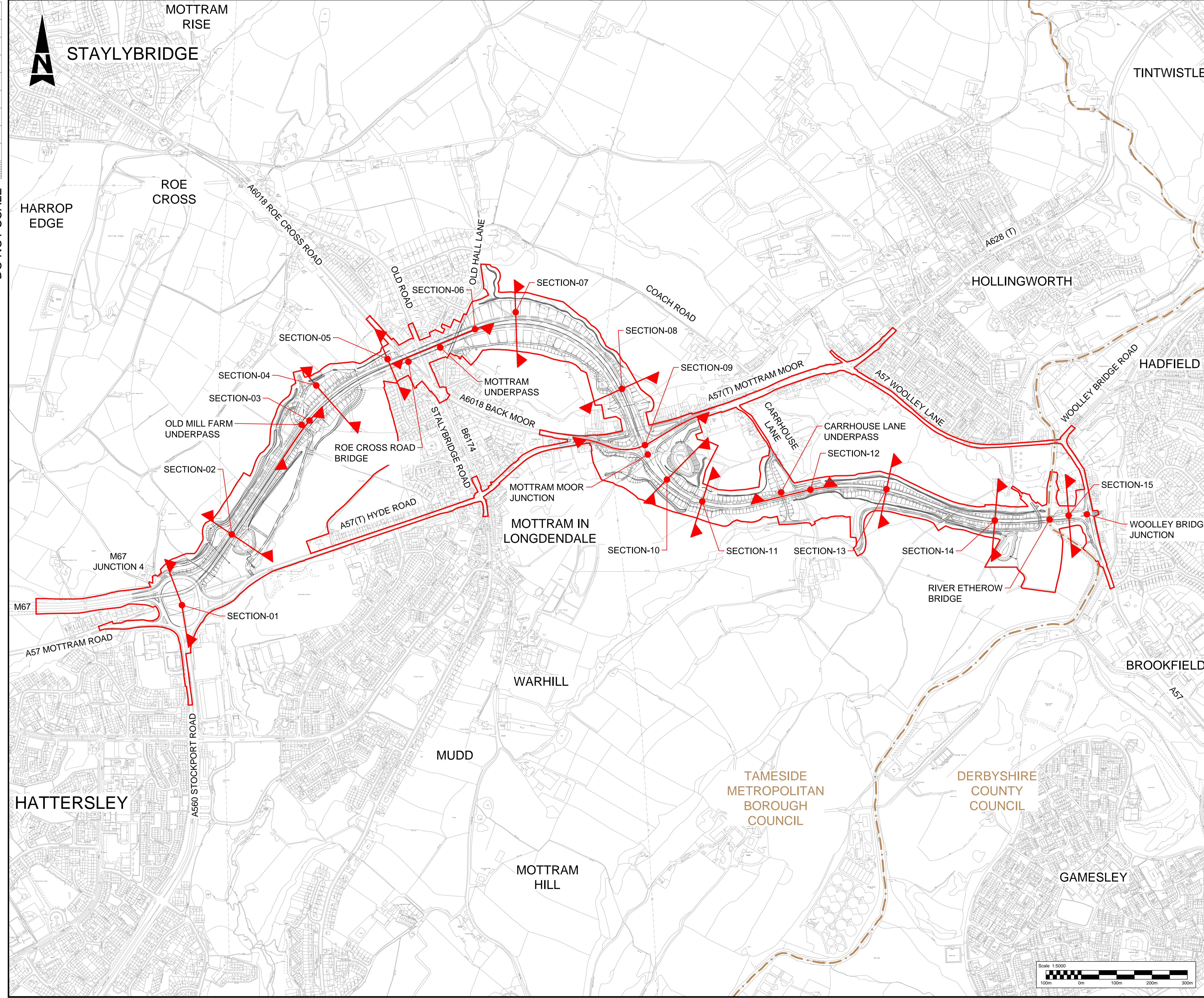
- Scheme Layout Plans (APP-011)

2. Schedule of plans included in this application document

Document title	Document number	Version
2.7 Engineering Drawings and Sections – Key Plan Regulation 5(4)	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020720	<u>P02</u>
2.7 Engineering Drawings and Sections – Cross Section Regulation 5(2)(o) and 6(2). Sheet 1 of 3	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020721	<u>P02</u>
2.7 Engineering Drawings and Sections – Cross Section Regulation 5(2)(o) and 6(2). Sheet 2 of 3	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020722	<u>P02</u>
2.7 Engineering Drawings and Sections – Cross Section Regulation 5(2)(o) and 6(2). Sheet 3 of 3	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020723	<u>P02</u>
2.7 Engineering Drawings and Sections – Structure Details Old Mill Farm Underpass Regulation 5(2)(o) and 6(2). Sheet 1 of 5	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020731	<u>P02</u>
2.7 Engineering Drawings and Sections – Structure Details Roe Cross Road Underpass Regulation 5(2)(o) and 6(2). Sheet 2 of 5	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020732	<u>P02</u>
2.7 Engineering Drawings and Sections – Structure Details Mottram Underpass Regulation 5(2)(o) and 6(2). Sheet 3 of 5	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020733	<u>P02</u>
2.7 Engineering Drawings and Sections – Structure Details Mottram Underpass Regulation 5(2)(o) and 6(2). Sheet 4 of 5	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020734	<u>P02</u>
2.7 Engineering Drawings and Sections – Structure Details River Etherow Bridge Regulation 5(2)(o) and 6(2). Sheet 5 of 5	TR010034/APP/2.7 HE551473-BBA-LDC- A57_AL_SCHEME-DR-ZL-020734	<u>P02</u>

DO NOT SCALE

Millimetres
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- NOTES**
- FOR SECTIONS SEE DRAWINGS NUMBERS:
HE551473-BBA-LDC-A57_AL_SCHEME-DR-ZL-020721
HE551473-BBA-LDC-A57_AL_SCHEME-DR-ZL-020722
HE551473-BBA-LDC-A57_AL_SCHEME-DR-ZL-020723
 - FOR STRUCTURE DETAILS SEE DRAWINGS NUMBERS:
HE551473-BBA-LDC-A57_AL_SCHEME-DR-ZL-020731
HE551473-BBA-LDC-A57_AL_SCHEME-DR-ZL-020732
HE551473-BBA-LDC-A57_AL_SCHEME-DR-ZL-020733
HE551473-BBA-LDC-A57_AL_SCHEME-DR-ZL-020734
HE551473-BBA-LDC-A57_AL_SCHEME-DR-ZL-020735
 - THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE DCO BOUNDARY OR THE RELEVANT LIMITS OF DEVIATION, AND SUBJECT TO THE REQUIREMENTS OF SCHEDULE 2 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1).

- LEGEND**
- SECTION MARKER AND ORIENTATION
 - DEVELOPMENT CONSENT ORDER (DCO) BOUNDARY
 - LOCAL AUTHORITY BOUNDARY

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Description	Status	Revision	Issue Date
DCO APPLICATION	A4	P01	14/05/21
S51 ADVICE	A4	P02	17/11/21

Drawing Suitability	DCO APPLICATION	Status	A4
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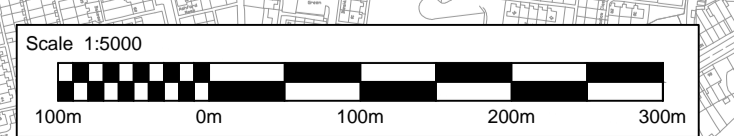


Scheme Name
A57 LINK ROADS

Drawing Title
CROSS SECTIONS
KEY PLAN
REGULATION 5(4)
SHEET 1 OF 1

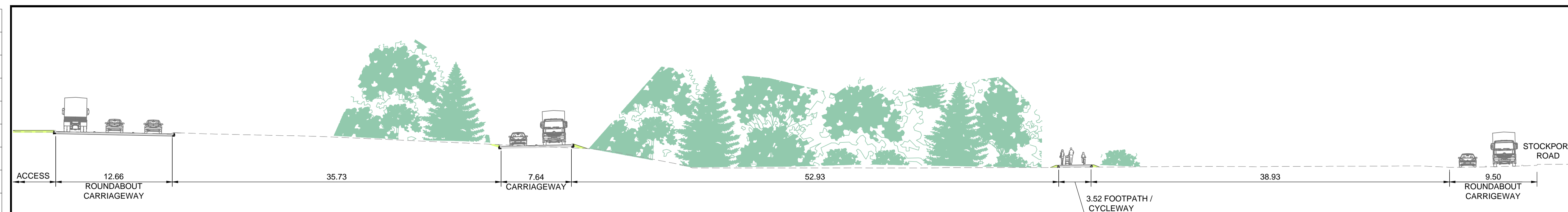
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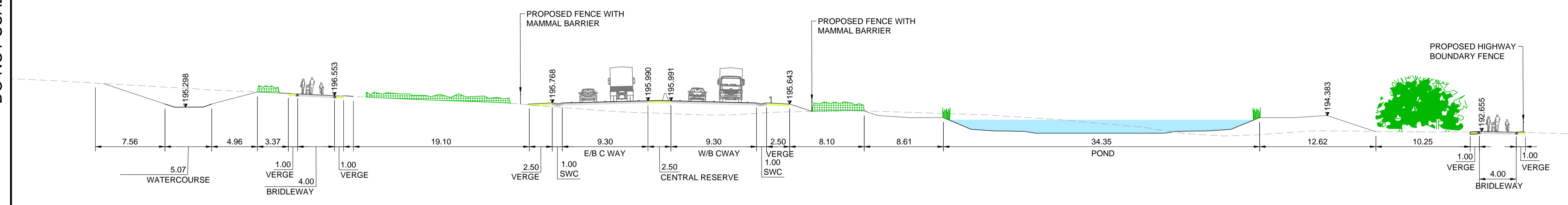


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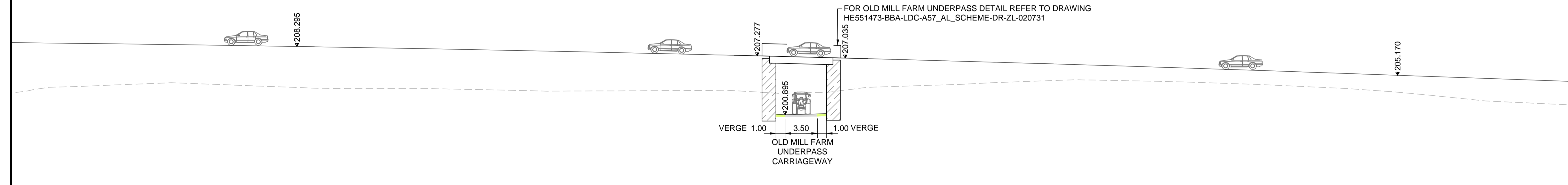
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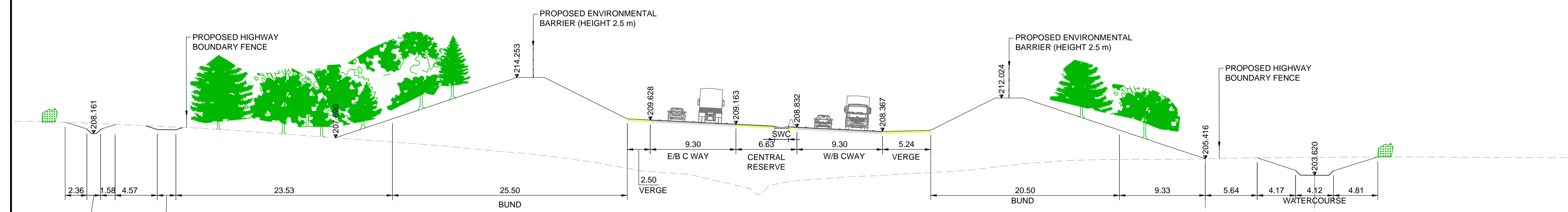
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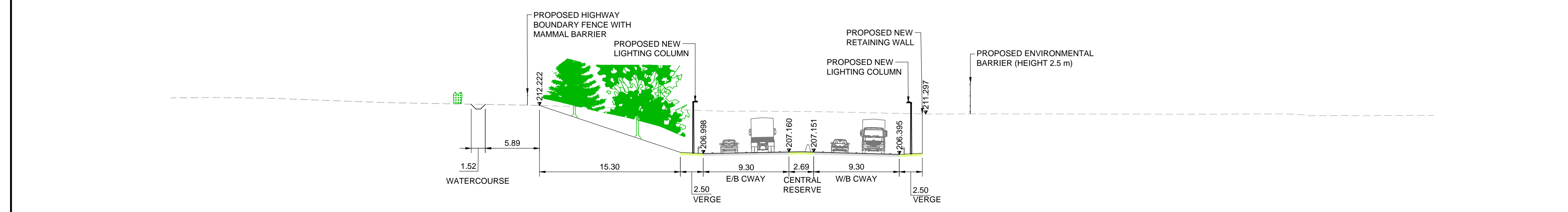
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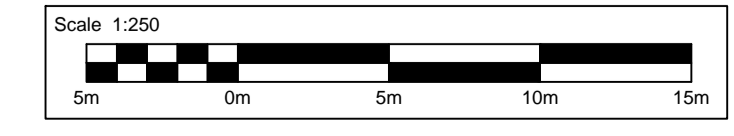
SECTION-03 : A57 LINK ROADS
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SECTION-04 : A57 LINK ROADS
SCALE 1:250



SECTION-05 : A57 LINK ROADS
SCALE 1:250



- NOTES:**
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 2. EARTHWORKS REQUIREMENTS ARE PENDING DETAILED TOPOGRAPHICAL SURVEY.
 3. ALL EARTHWORKS SLOPES TO BE 1(V):3(H) UNLESS OTHERWISE SHOWN.
 4. VERGE WIDTHS SHOWN ARE MINIMUM. VERGE WIDTH SHALL BE INCREASED TO PROVIDE SIGHT DISTANCE WHERE REQUIRED.
 5. VEGETATION SHOWN 15 YEARS AFTER OPENING.
 6. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1).
 7. THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE DCO BOUNDARY OR THE RELEVANT LIMITS OF DEVIATION, AND SUBJECT TO THE REQUIREMENTS OF SCHEDULE 2 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1)

- KEY:**
- PROPOSED TREE AND SHRUB PLANTING
 - EXISTING VEGETATION
 - EXISTING GROUND LEVEL
 - MARGINAL AND EMERGENT VEGETATION
 - PROPOSED OPEN GRASSLAND OR LOW VEGETATION
 - LEVEL OF PROPOSED ROAD WORKS
 - SWC SURFACE WATER CHANNEL
 - E/B CWAY EASTBOUND CARRIAGEWAY
 - W/B CWAY WESTBOUND CARRIAGEWAY

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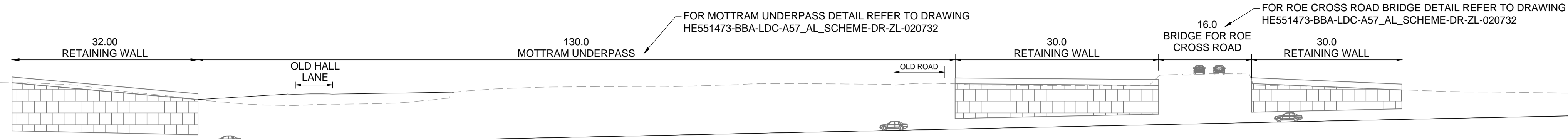
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DCO APPLICATION	A4	P01	14/05/21
S51 ADVICE	A4	P02	17/11/21

Drawing Suitability	Status
DCO APPLICATION	A4



Scheme Name	A57 LINK ROADS		
Drawing Title	CROSS SECTIONS REGULATIONS 5(2)(o) & 6(2)		
	SHEET 1 OF 3		
PINS Ref No:	TR010034/APP/2.7		
Drawing Number	Originator	Volume	
HE551473	BBA	LDC	
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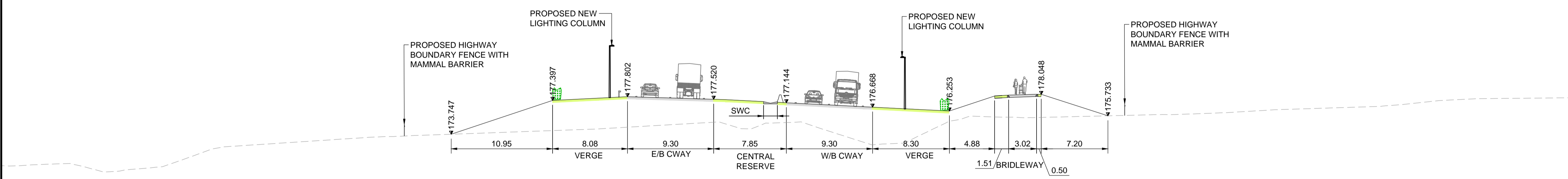
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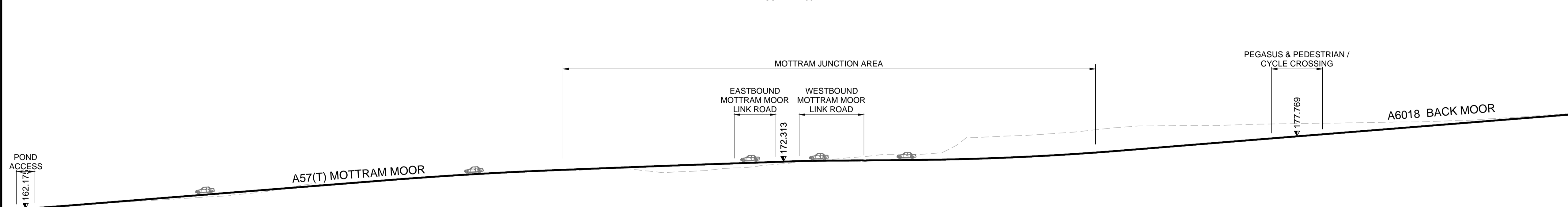
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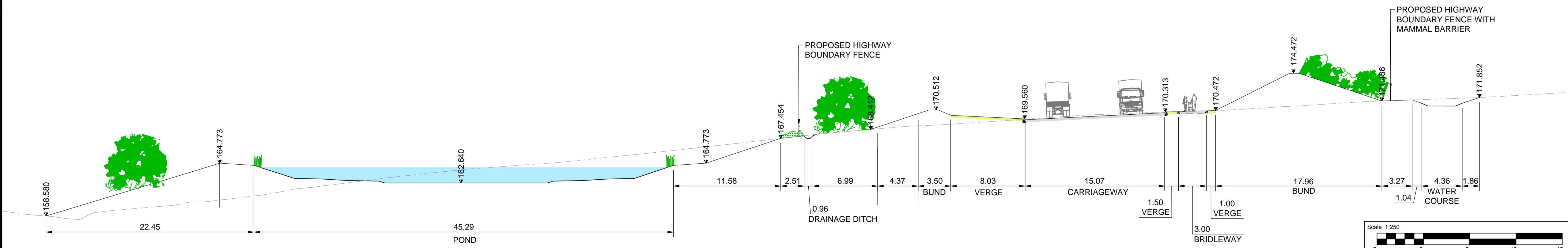
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SECTION-08: A57 LINK ROADS
SCALE 1:250



SECTION-09: A57 LINK ROADS
SCALE 1:500



SECTION-10: A57 LINK ROADS
SCALE 1:250

- NOTES:**
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Description	Status	Revision	Issue Date
DCO APPLICATION	A4	P01	14/05/21
S51 ADVICE	A4	P02	17/11/21

Drawing Suitability	Status
DCO APPLICATION	A4



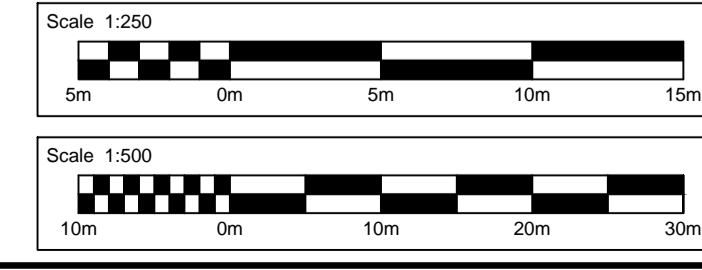
Scheme Name
A57 LINK ROADS

Drawing Title
CROSS SECTIONS REGULATIONS 5(2)(o) & 6(2)

SHEET 2 OF 3

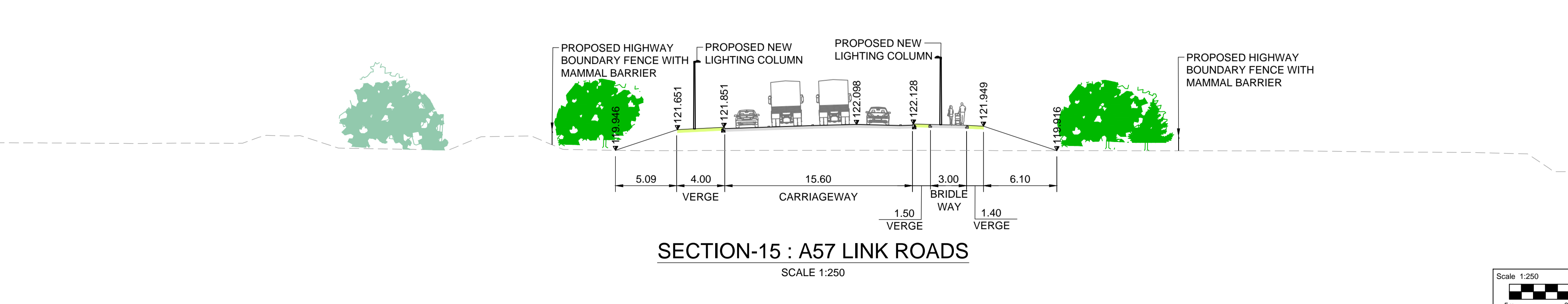
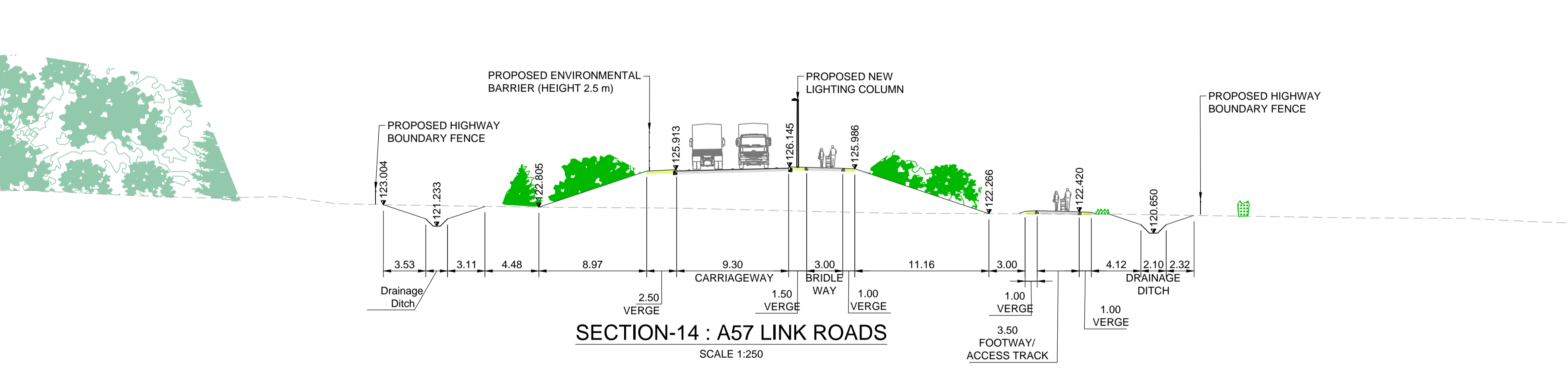
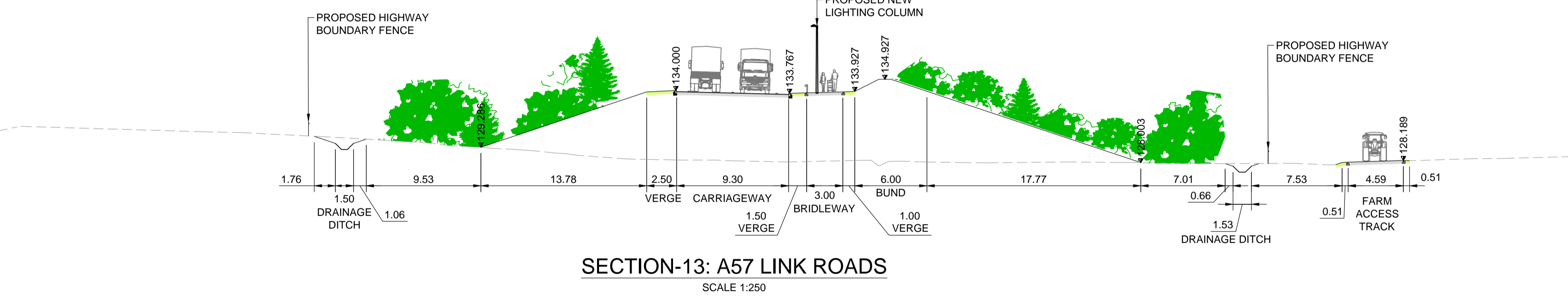
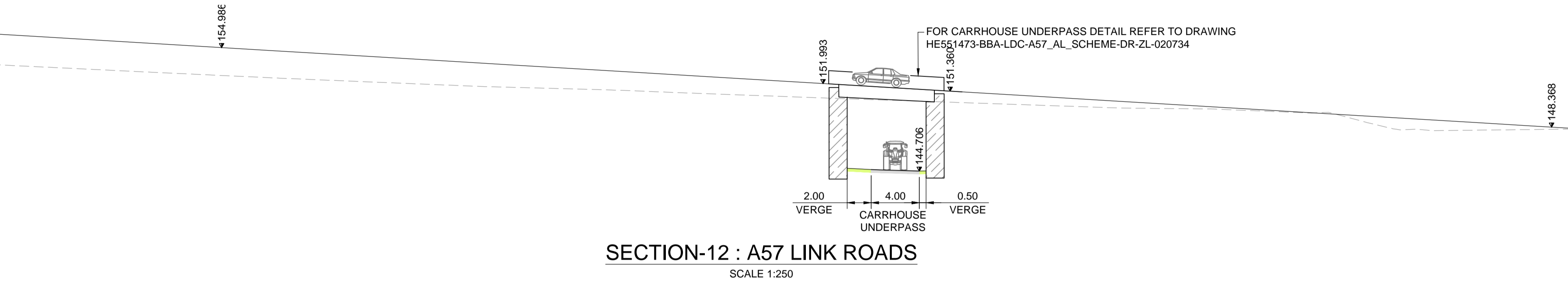
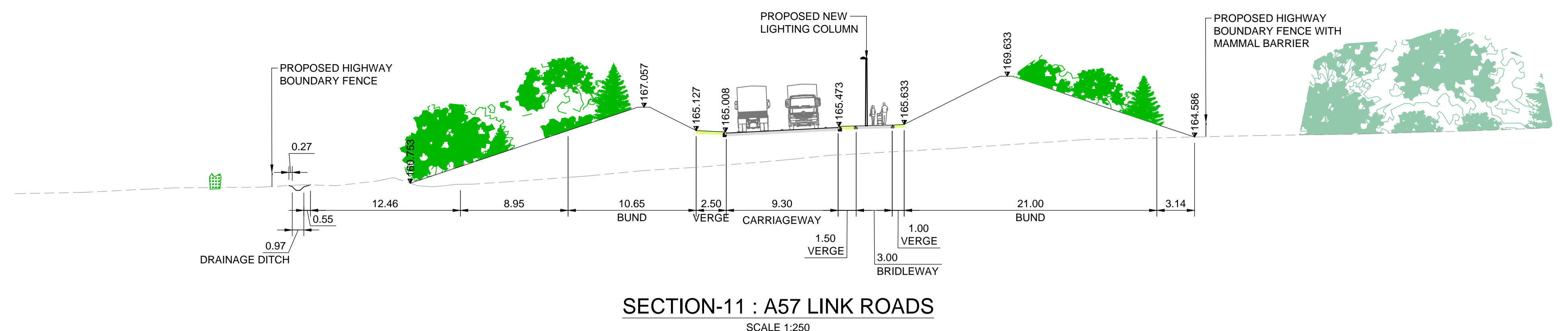
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Drawing Number	Originator	Volume
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Scale	Original Size	Rev
AS SHOWN @ A1	A1	P02



DO NOT SCALE

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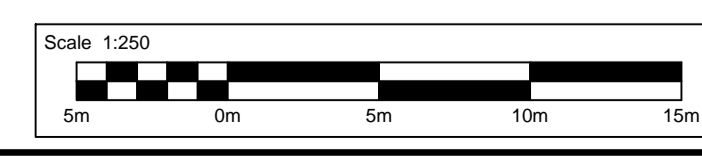
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Description	Status	Revision	Issue Date
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S51 ADVICE	A4	P02	17/11/21

Drawing Suitability	Status
DCO APPLICATION	A4

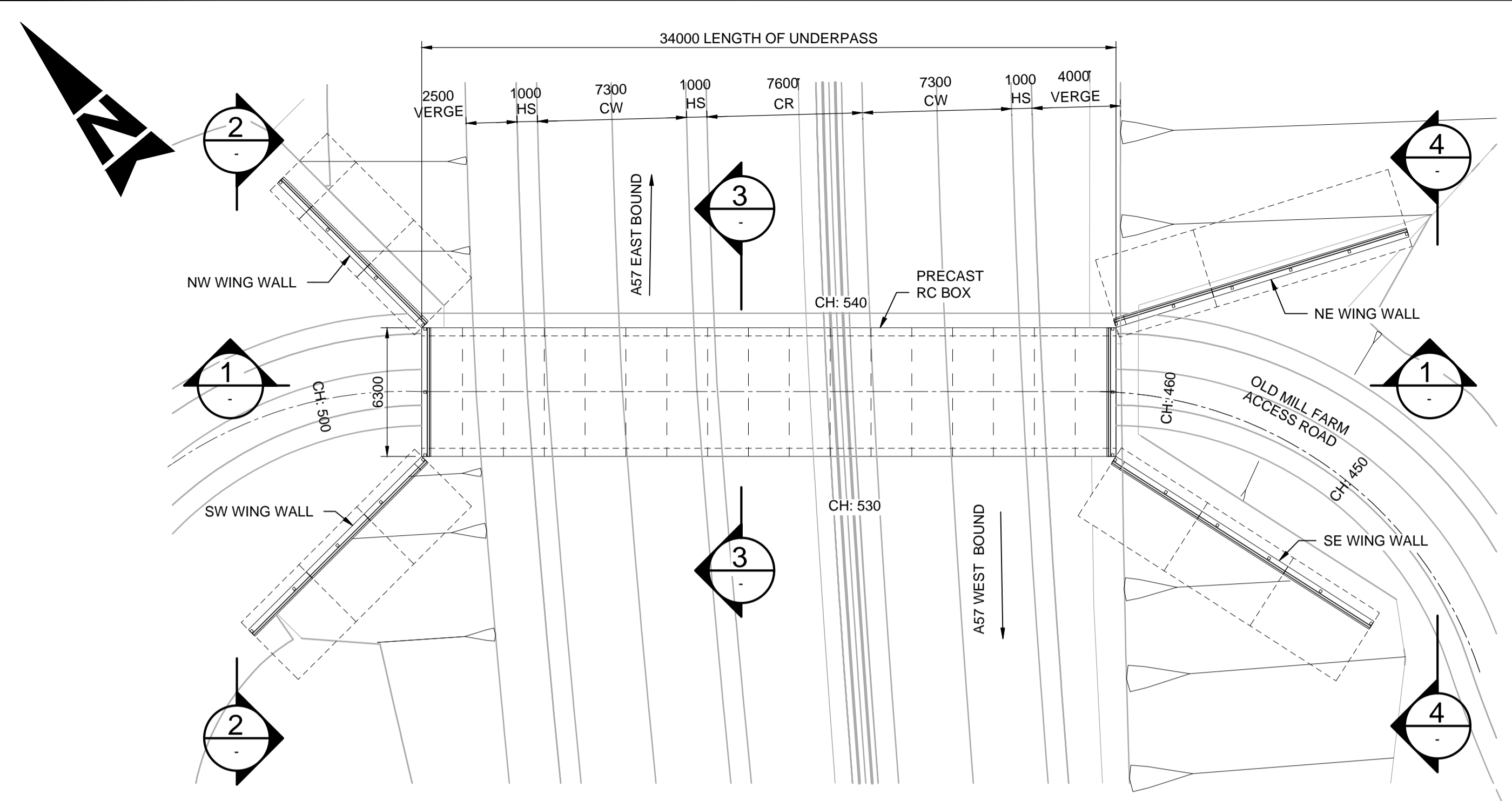


Scheme Name	A57 LINK ROADS		
Drawing Title	CROSS SECTIONS REGULATIONS 5(2)(o) & 6(2)		
	SHEET 3 OF 3		
PINS Ref No:	TR010034/APP/2.7		
Drawing Number	Originator	Volume	
HE551473	BBA	LDC	
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Scale	Original Size	Rev:	
AS SHOWN @ A1	A1	P02	

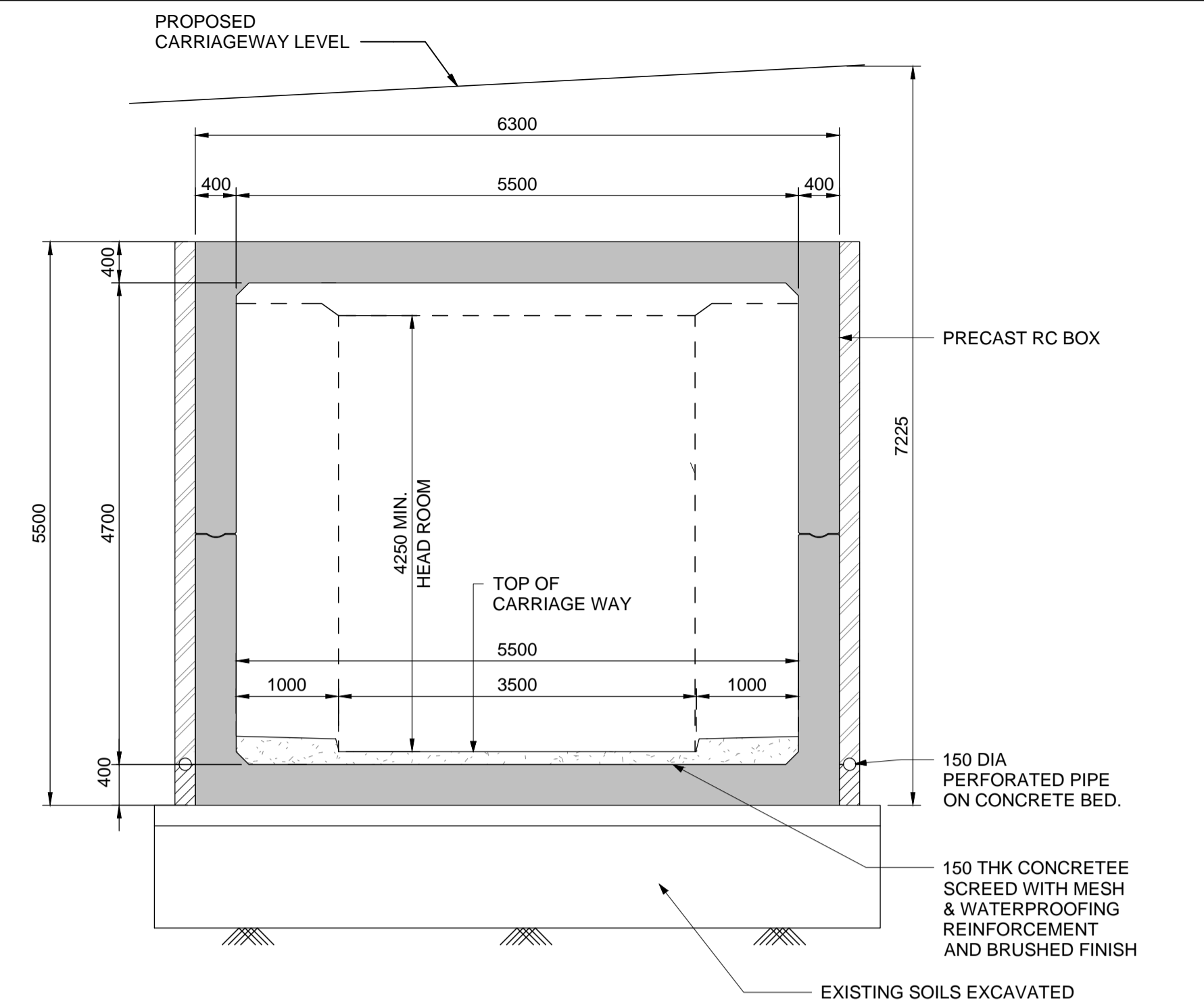
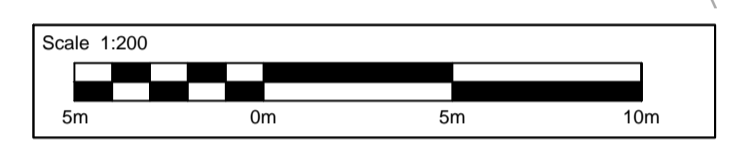


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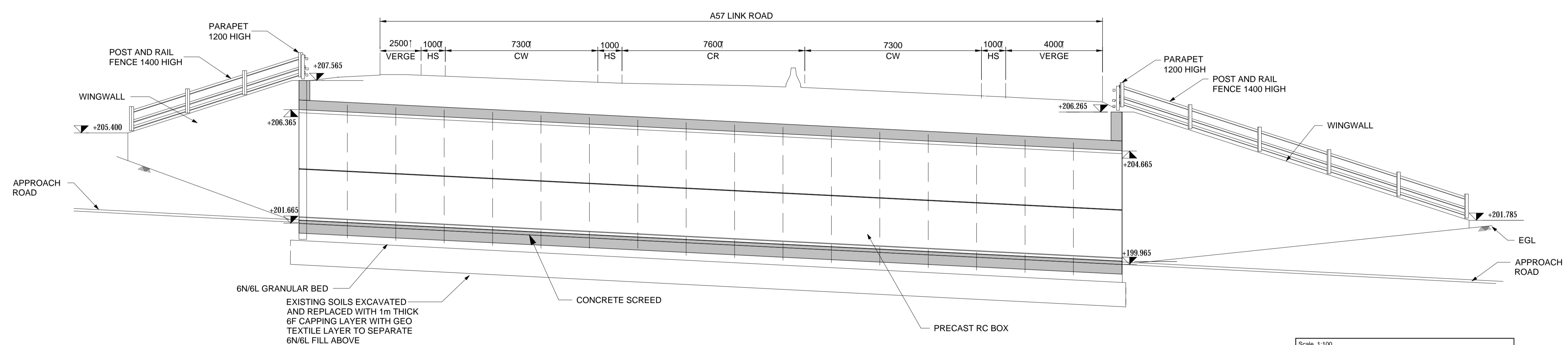
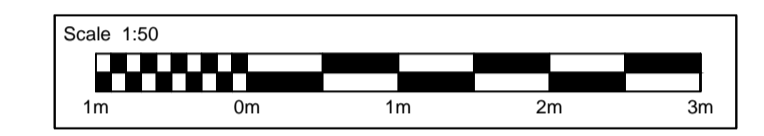
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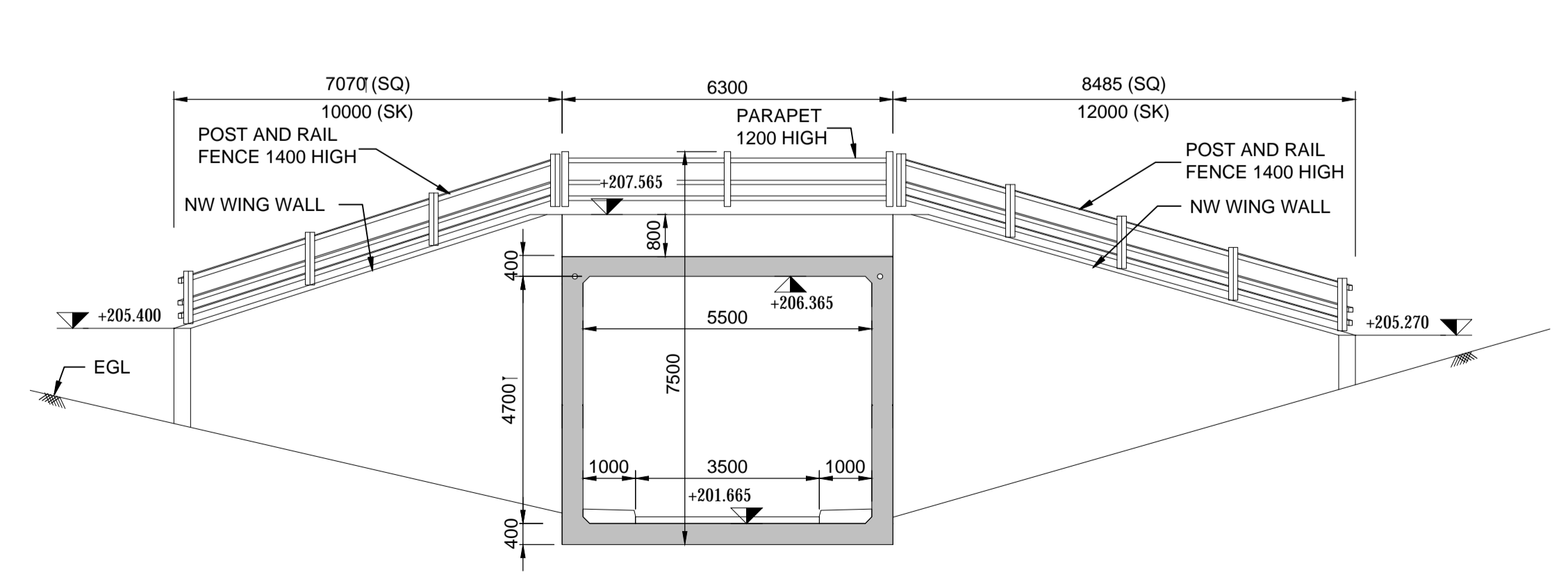
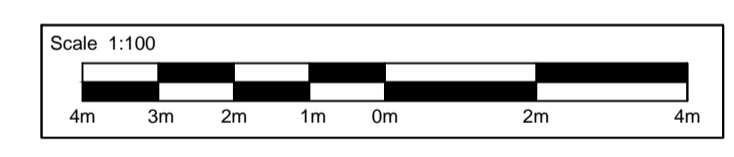
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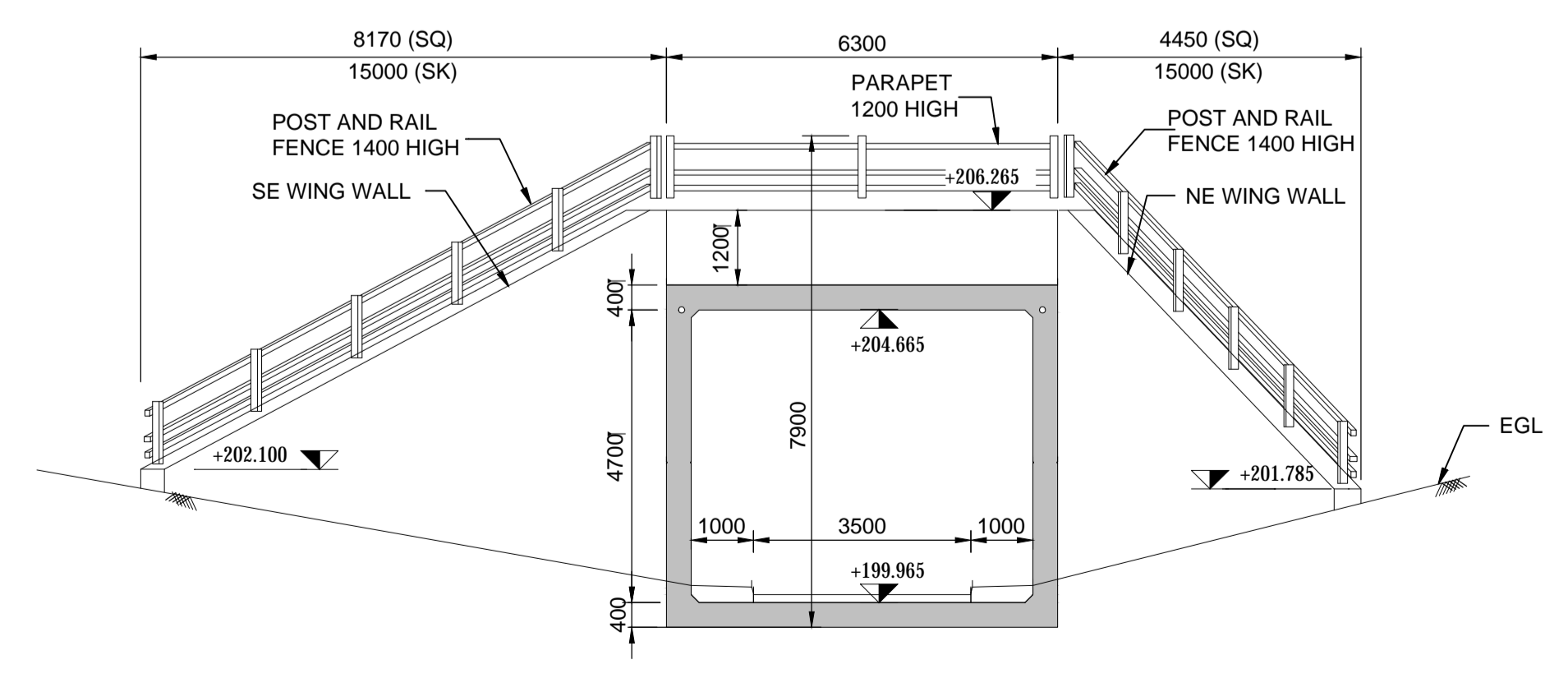
3 SECTION
SCALE 1 : 50



1 SECTION
SCALE 1 : 100



2 ELEVATION
SCALE 1 : 100



4 ELEVATION
SCALE 1 : 100

- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - THESE PLANS SHOULD BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1).
 - THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE DCO BOUNDARY OR THE RELEVANT LIMITS OF DEVIATION, AND SUBJECT TO THE REQUIREMENTS OF SCHEDULE 2 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1)

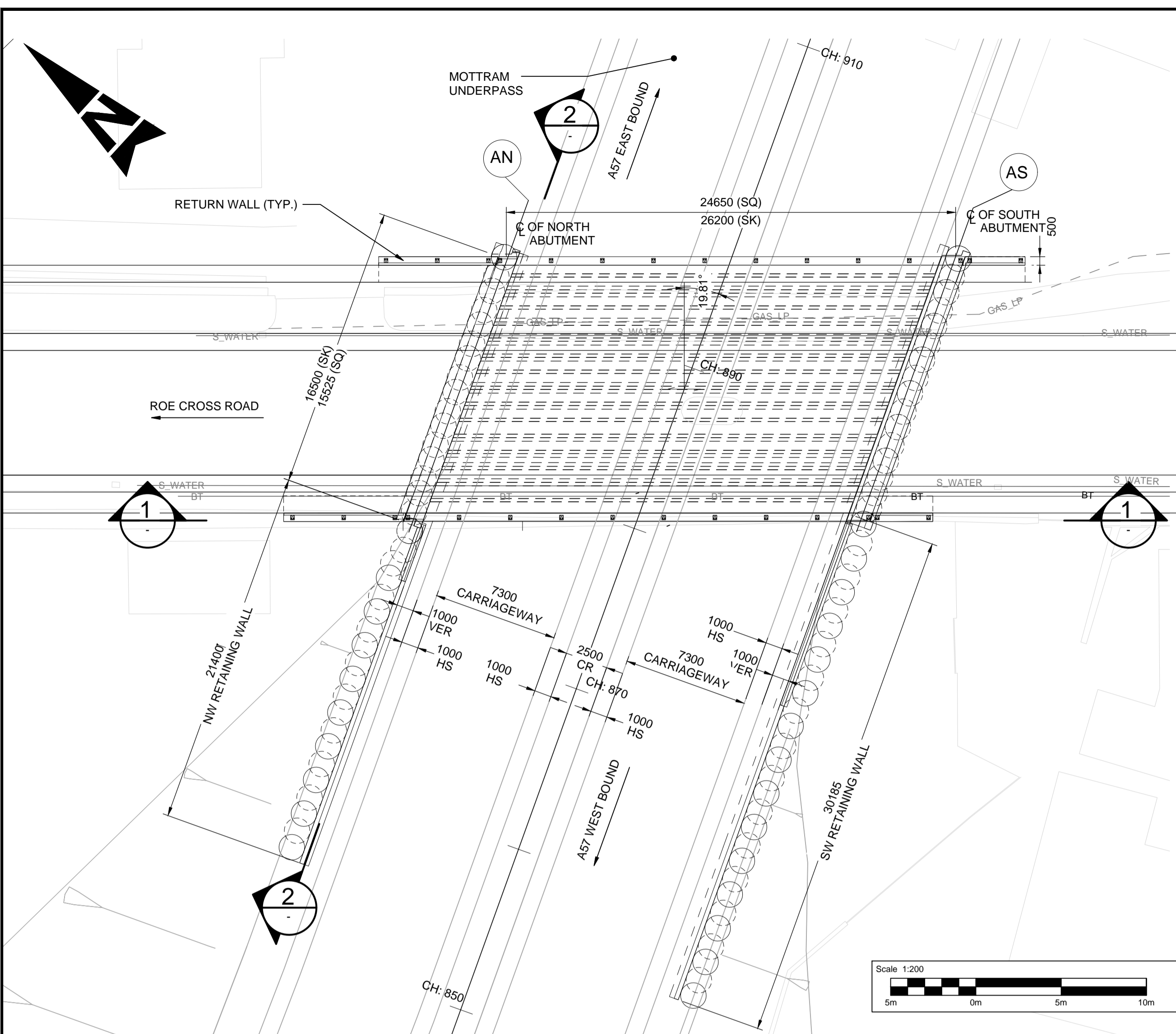
- ABBREVIATIONS:**
- SQ - SQUARE
 - SK - SKEW
 - FGL - FINISH GROUND LEVEL
 - EGL - EXISTING GROUND LEVEL
 - TYP - TYPICAL
 - HS - HARD STRIP
 - THK - THICK
 - CH - CHAINAGE
 - DIA - DIAMETER
 - HS - HARD STRIP
 - CW - CARRIAGEWAY
 - NW - NORTH WEST
 - NE - NORTH EAST
 - SE - SOUTH EAST
 - SW - SOUTH WEST
 - m - METRES
 - RC - REINFORCED CONCRETE
 - CR - CENTRAL RESERVE

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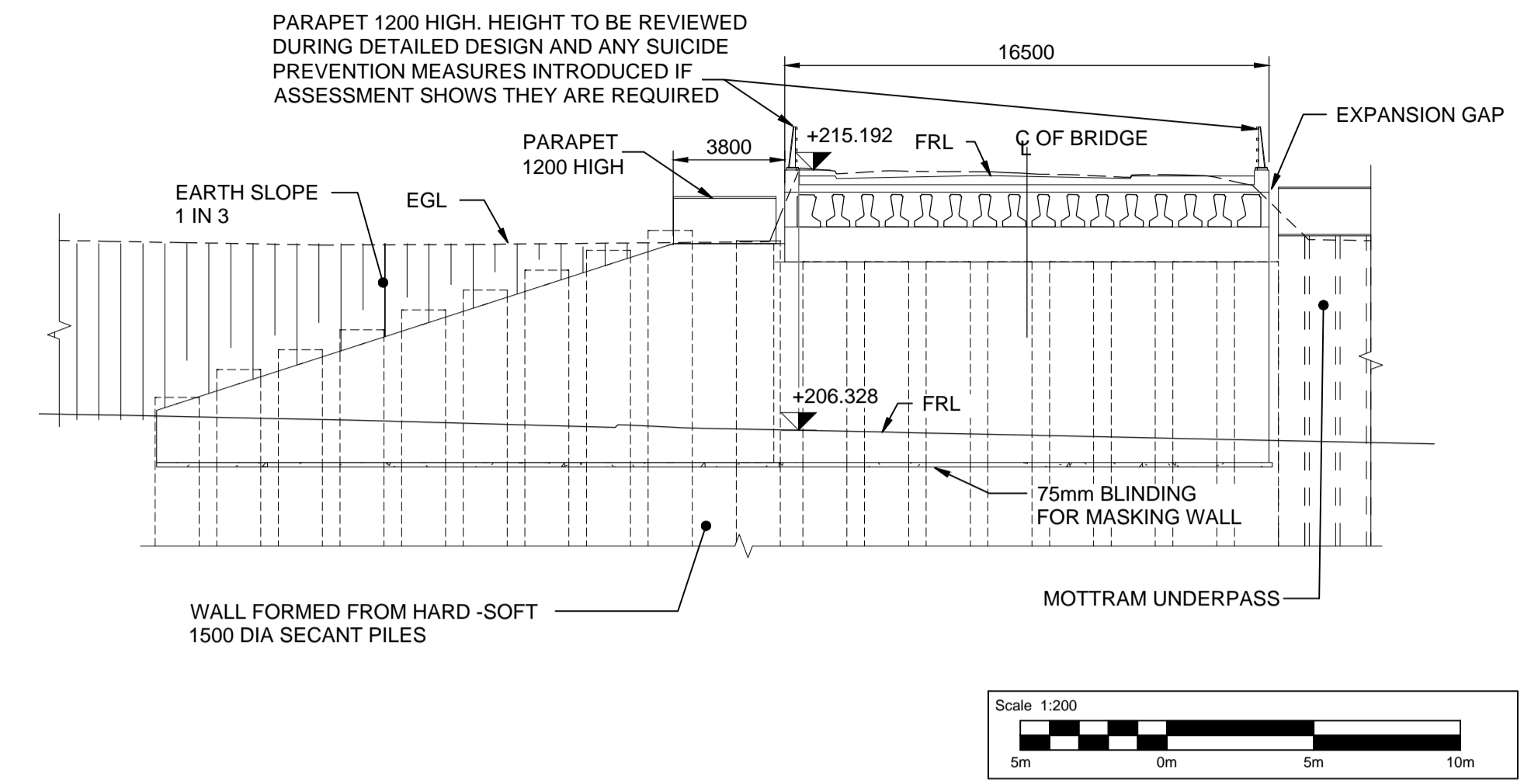
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DCO APPLICATION	A4	P01	14/05/21
S51 ADVICE	A4	P02	17/11/21

Drawing Suitability	DCO APPLICATION	Status	A4
Client			
Scheme Name	A57 LINK ROADS		
Drawing Title	STRUCTURE DETAILS OLD MILL FARM UNDERPASS REGULATIONS 5(2)(o) & 6(2) SHEET 1 OF 5		
PINS Ref No:	TR010034/APP/2.7		
Drawing Number	HE551473	Originator	BBA
Scheme	A57_AL_SCHEME	Volume	LDC
Location	AS SHOWN @ A1	Type	DR · ZL · 020731
Scale	Original Size	A1	Rev: P02

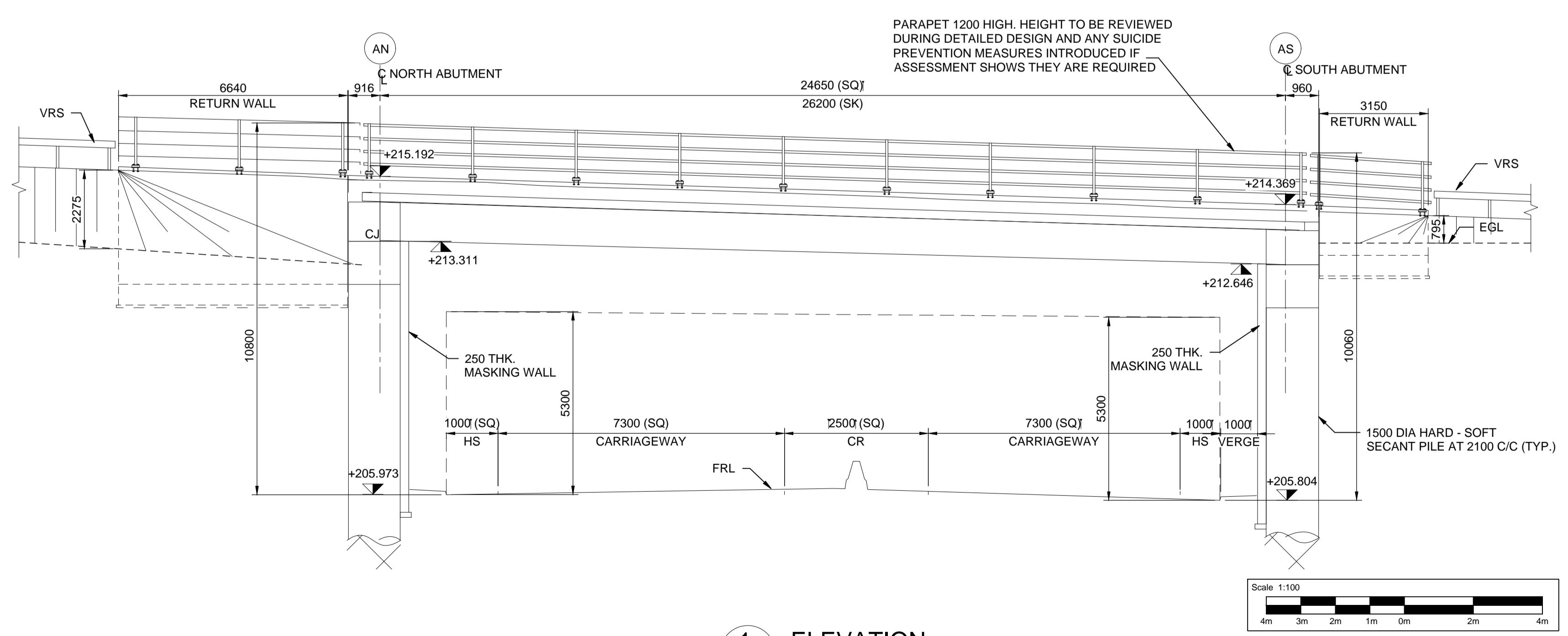
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DO NOT SCALE



PLAN ON DECK
SCALE 1:200



2 LONGITUDINAL SECTION AT NORTH WALL
SCALE 1:200



1 ELEVATION
SCALE 1:100

- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES UNLESS OTHERWISE NOTED.
 - FULL LENGTH OF PILES NOT SHOWN.
 - EXISTING ROAD AND GROUND LEVELS TO BE REINSTATE ON COMPLETION.
 - STATUTORY UNDERTAKERS APPARATUS TO BE REINSTATE AS AGREED WITH UTILITY COMPANIES.
 - THESE PLANS SHOULD BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1).
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- ABBREVIATIONS:**
- Q - CENTRE LINE
 - TYP - TYPICAL
 - FGL - FINISH GROUND LEVEL
 - EGL - EXISTING GROUND LEVEL HS
 - FP - FOOTPATH
 - CR - CENTRAL RESERVE
 - VER - VERGE
 - CH - CHAINAGE
 - FRL - FINISHED ROAD LEVEL
 - THK - THICK
 - m - METRES
 - SQ - SQUARE
 - SK - SKEW
 - VRS - VEHICLE RESTRAINT SYSTEM

- LEGEND:**
- S-WATER- - SURFACE WATER
 - GAS_LP - GAS LOW PRESSURE
 - BT - BT - TELECOMMUNICATIONS CABLE

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Description	Status	Revision	Issue Date
DCO APPLICATION	A4	P01	14/05/21
S51 ADVICE	A4	P02	17/11/21

Drawing Suitability	Status
DCO APPLICATION	A4



Scheme Name
A57 LINK ROADS

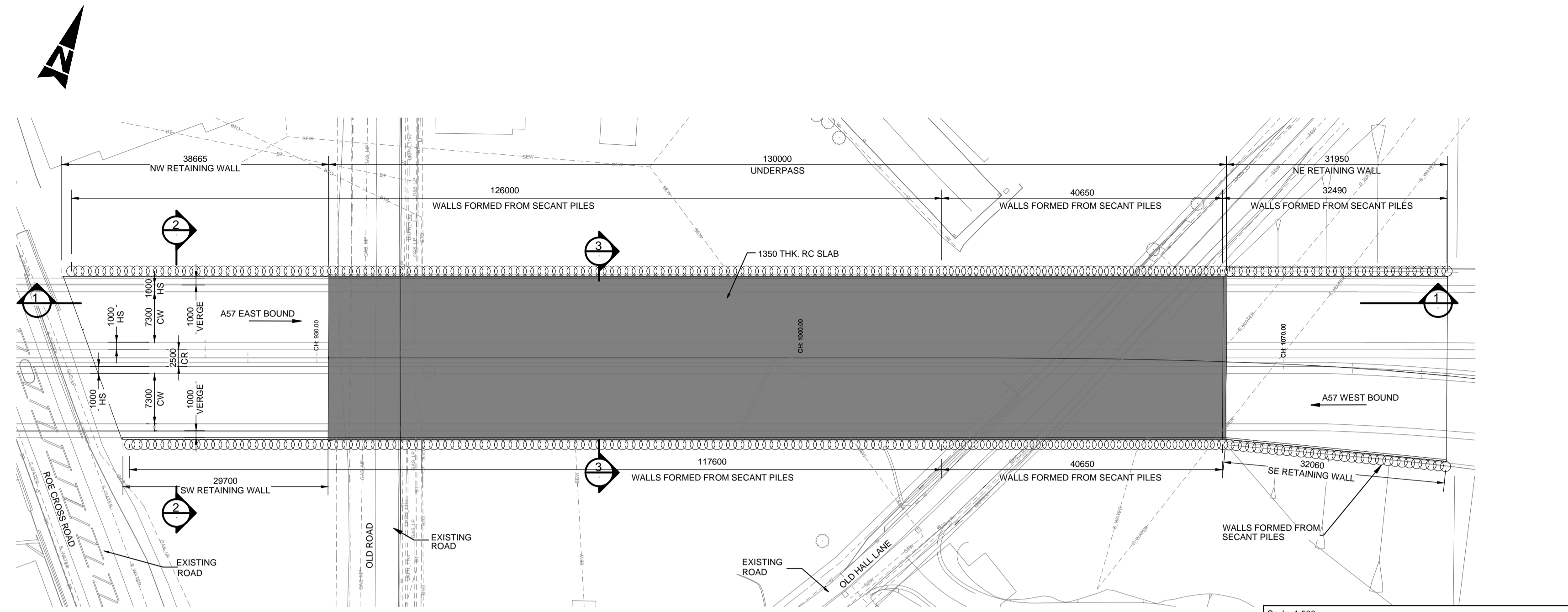
Drawing Title
**STRUCTURE DETAILS
ROE CROSS ROAD OVERBRIDGE
REGULATIONS 5(2)(a) & 6(2)
SHEET 2 OF 5**

PINS Ref No:
TR010034/APP/2.7

Drawing Number	Originator	Volume
HE551473	BBA	LDC
A57_AL_SCHEME - DR - ZL - 020732		
Location	Type	Role
AS SHOWN @ A1	A1	P02

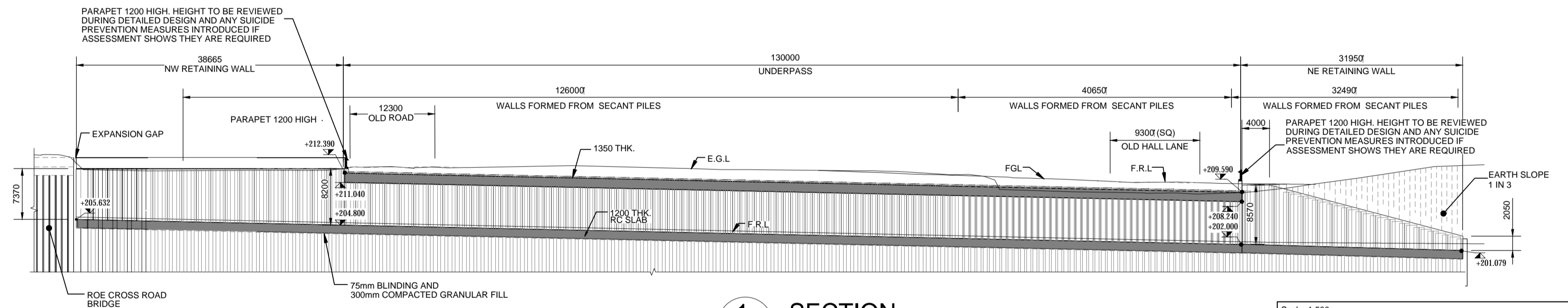
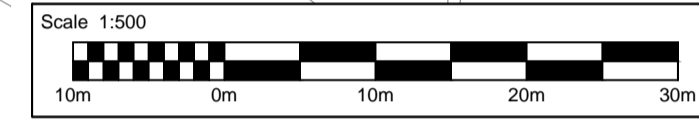
DO NOT SCALE

100
0 10
Millimetres



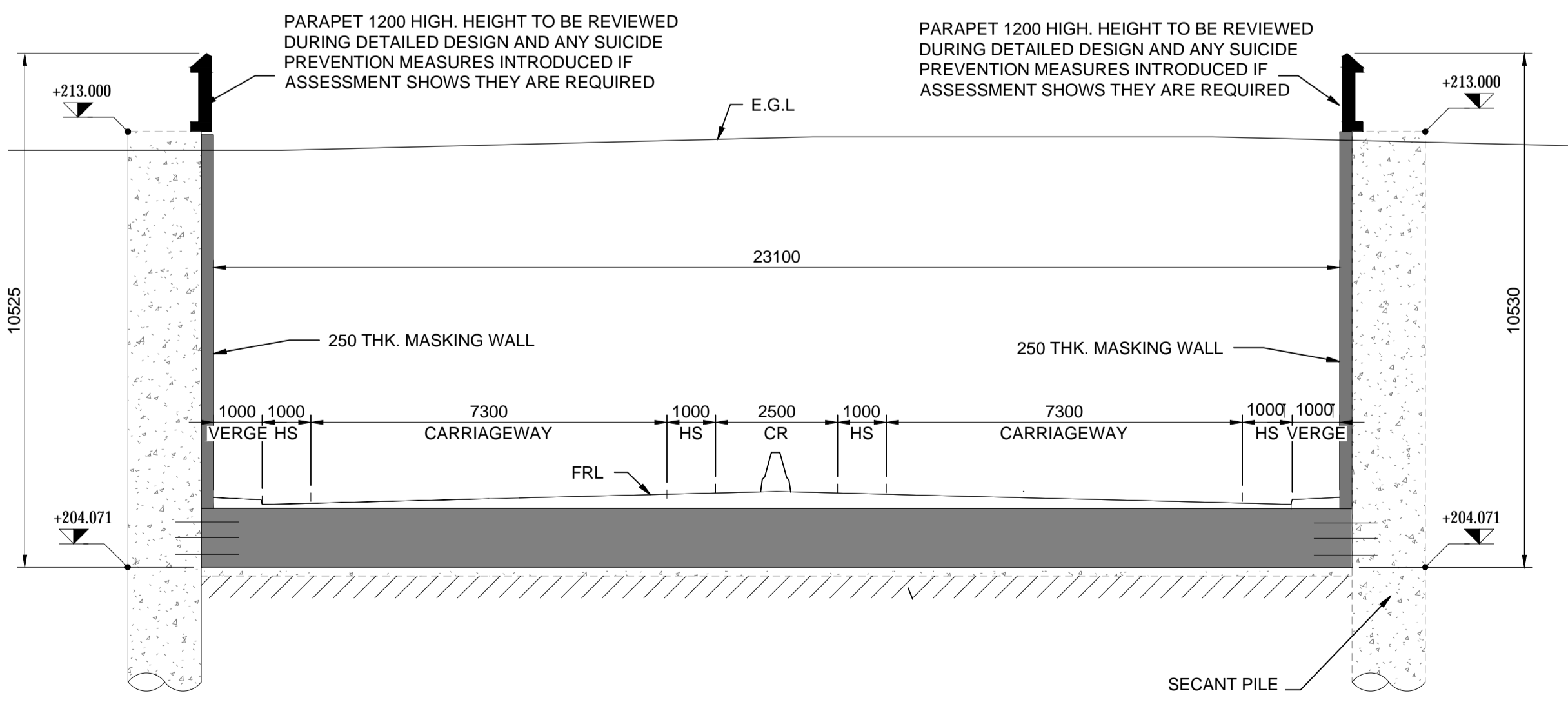
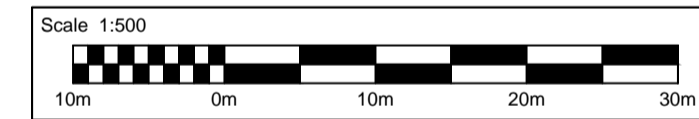
MOTTRAM UNDERPASS PLAN

SCALE 1 : 500



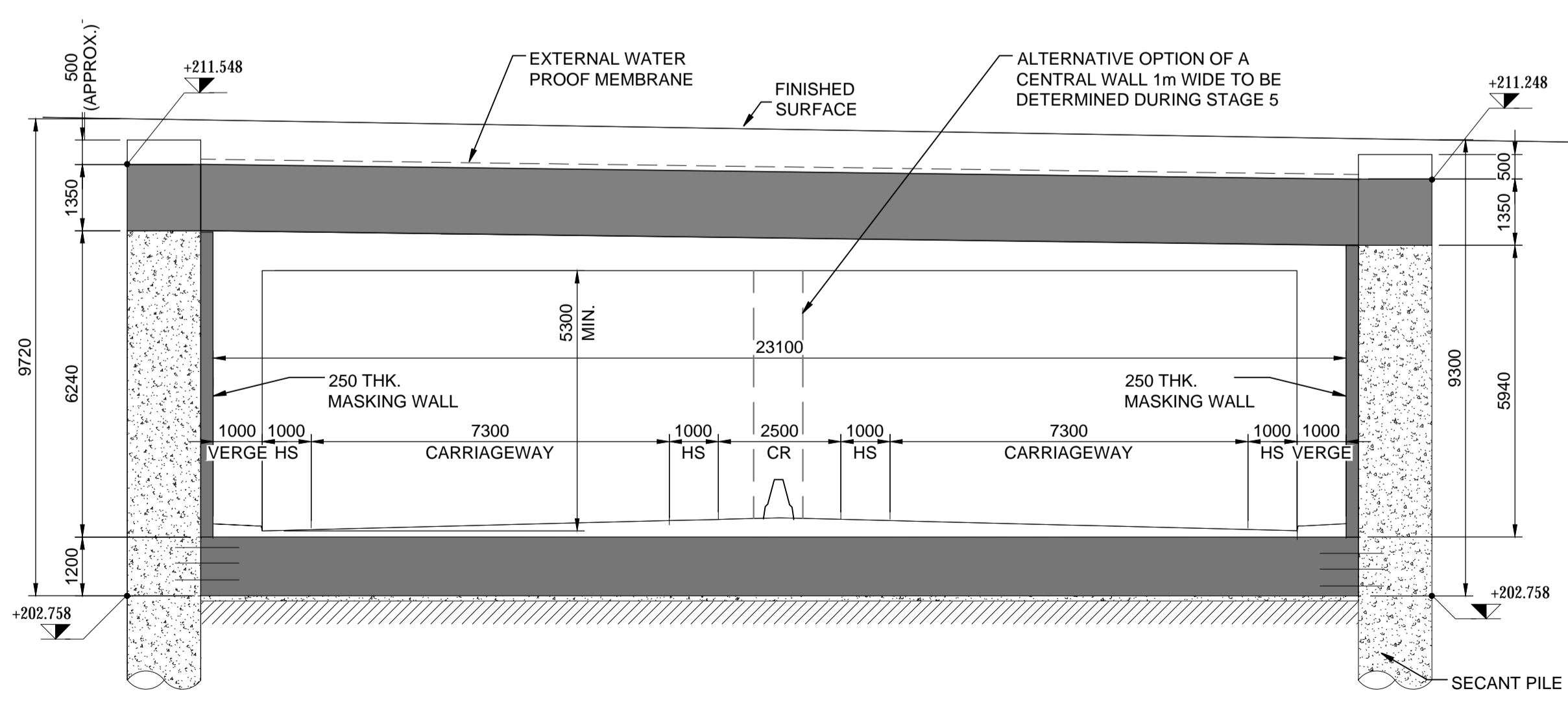
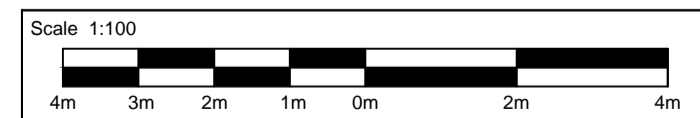
1 SECTION

SCALE 1 : 500



2 TYPICAL SECTION AT WEST RETAINING WALL

SCALE 1 : 100



3 TYPICAL SECTION AT UNDERPASS

SCALE 1 : 100

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES UNLESS OTHERWISE NOTED.
- EXISTING ROAD AND GROUND LEVELS TO BE REINSTATED ON COMPLETION.
- STATUTORY UNDERTAKERS APPARATUS TO BE REINSTATED AS AGREED WITH UTILITY COMPANIES.
- SECANT PILE DIA AND SPACING TO BE CONFIRMED.
- FULL LENGTH OF PILES NOT SHOWN.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1).
- THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE DCO BOUNDARY OR THE RELEVANT LIMITS OF DEVIATION, AND SUBJECT TO THE REQUIREMENTS OF SCHEDULE 2 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1)

ABBREVIATIONS:

- Q - CENTRE LINE
- TYP - TYPICAL
- FGL - FINISH GROUND LEVEL
- EGL - EXISTING GROUND LEVEL
- CW - CARRIAGEWAY
- HS - HARD STRIP
- FP - FOOTPATH
- CR - CENTRAL RESERVE
- CH - CHAINAGE
- FRL - FINISHED ROAD LEVEL
- SS - SEPARATION STRIP
- THK - THICK
- NW - NORTH WEST
- NE - NORTH EAST
- SE - SOUTH EAST
- SW - SOUTH WEST
- m - METRES

LEGEND:

- SURFACE WATER
- ELECTRIC 11kw
- ELECTRIC LOW VOLTAGE
- COMBINED SEWERS
- GAS LOW PRESSURE
- MAIN WATER DISTRIBUTION
- TELECOMMUNICATIONS CABLE
- TELECOMMUNICATIONS OVERHEAD

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Description

Status	Revision	Issue Date

Description

Status	Revision	Issue Date

Description

Status	Revision	Issue Date

DCO APPLICATION

Status	A4	Revision	P01	Issue Date	14/05/21

S51 ADVICE

Status	A4	Revision	P02	Issue Date	17/11/21

Drawing Suitability

DCO APPLICATION	Status
	A4



Scheme Name
A57 LINK ROADS

Drawing Title
**STRUCTURE DETAILS
MOTTRAM UNDERPASS
REGULATIONS 5(2)(o) & 6(2)
SHEET 3 OF 5**

PINS Ref No: TR010034/APP/2.7

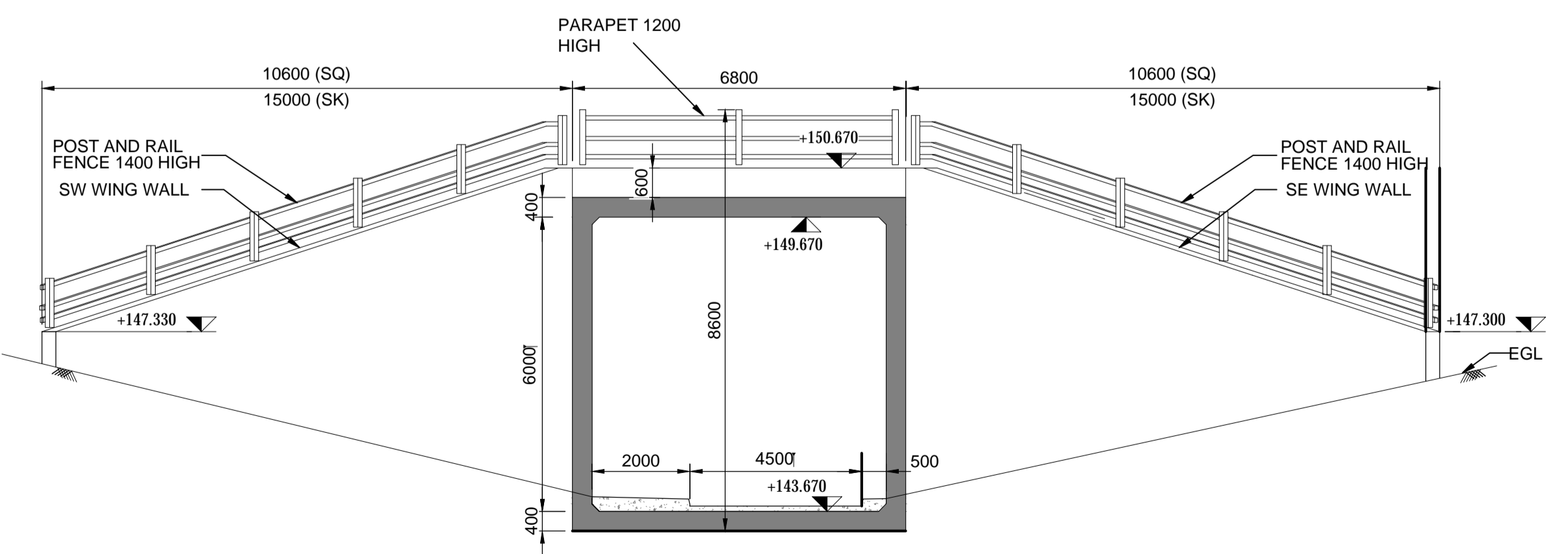
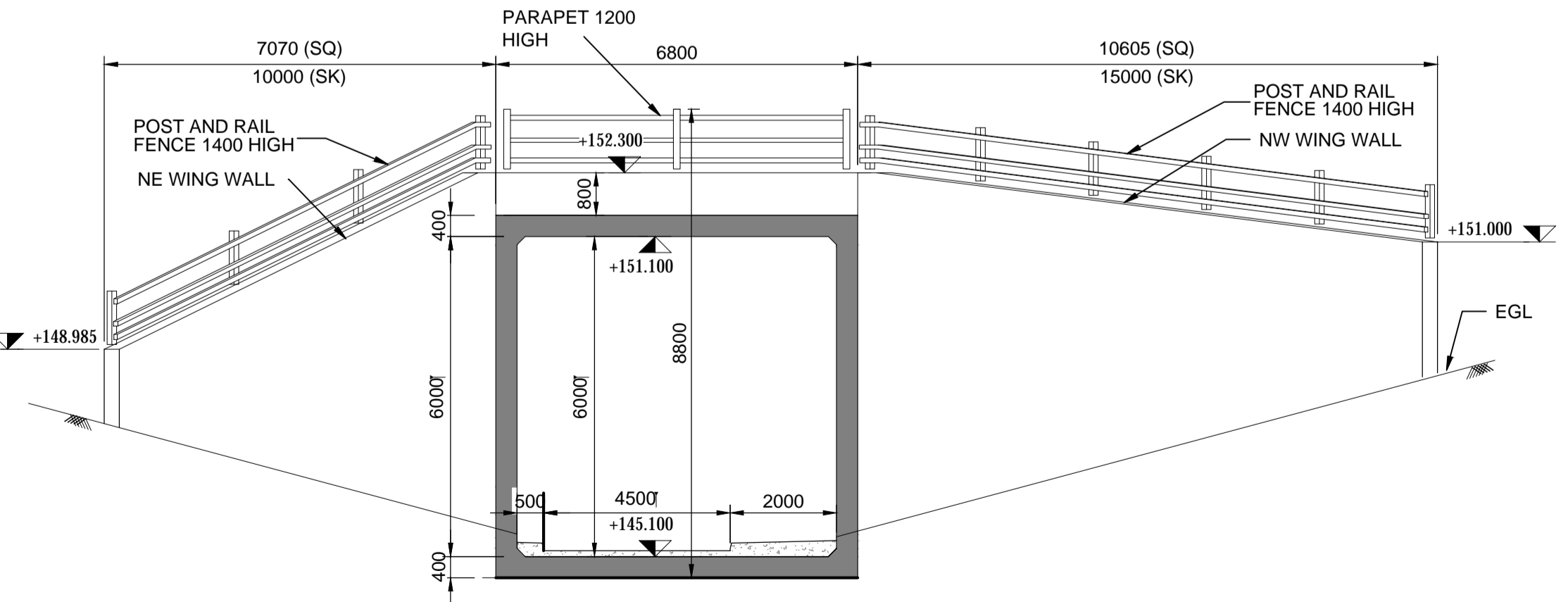
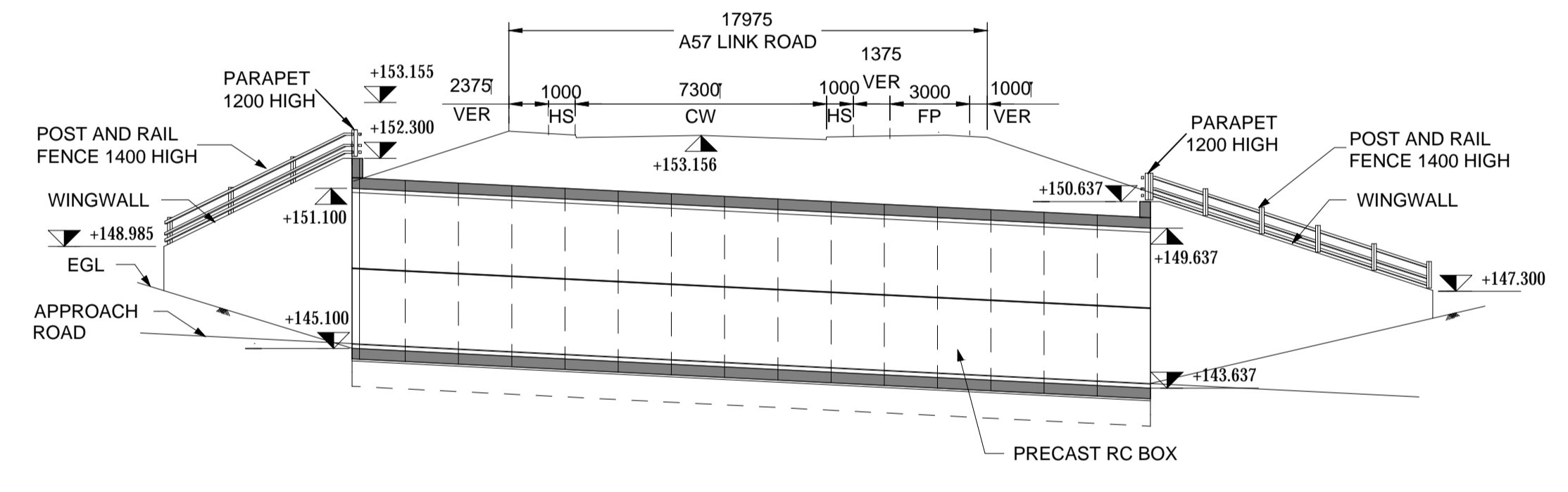
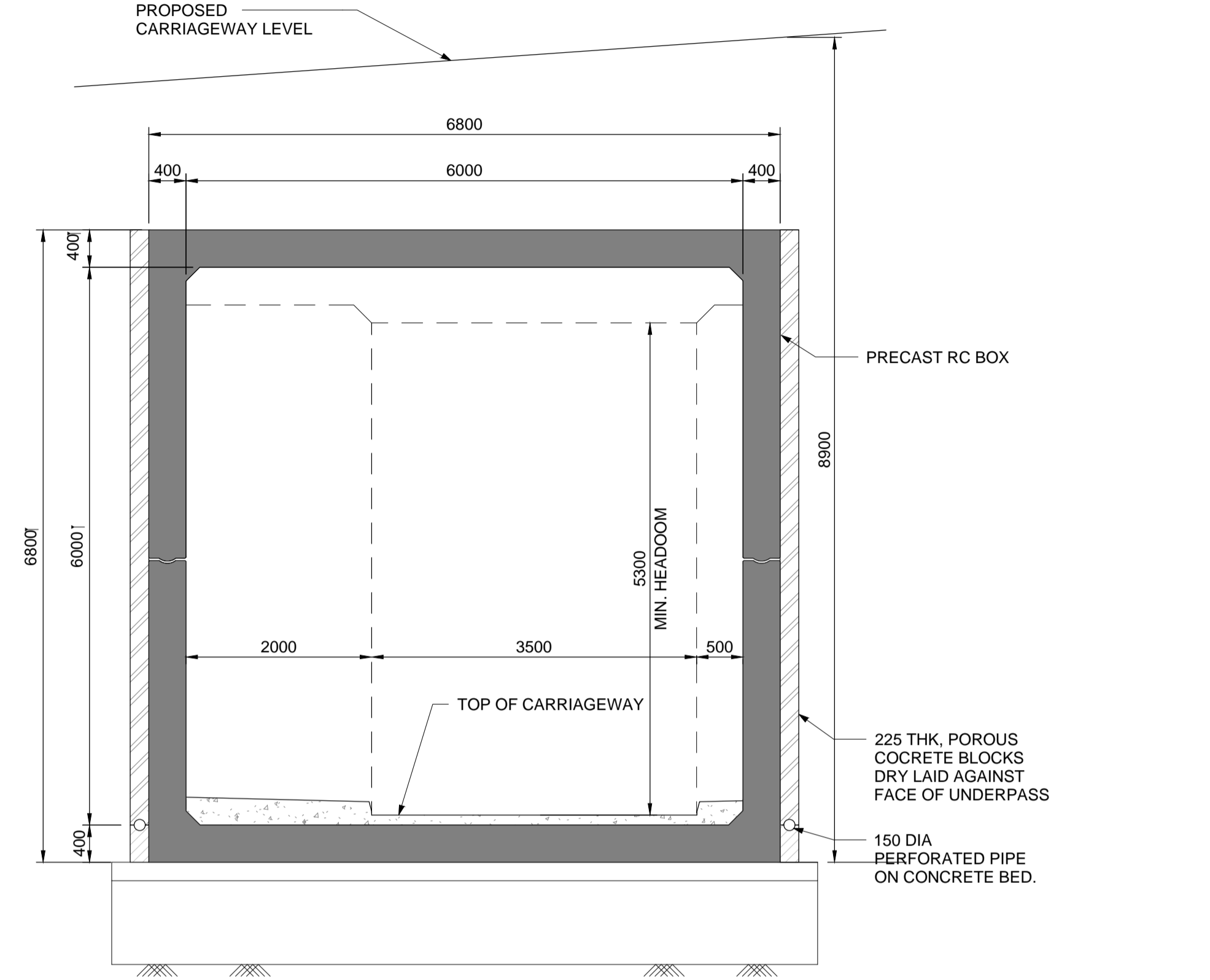
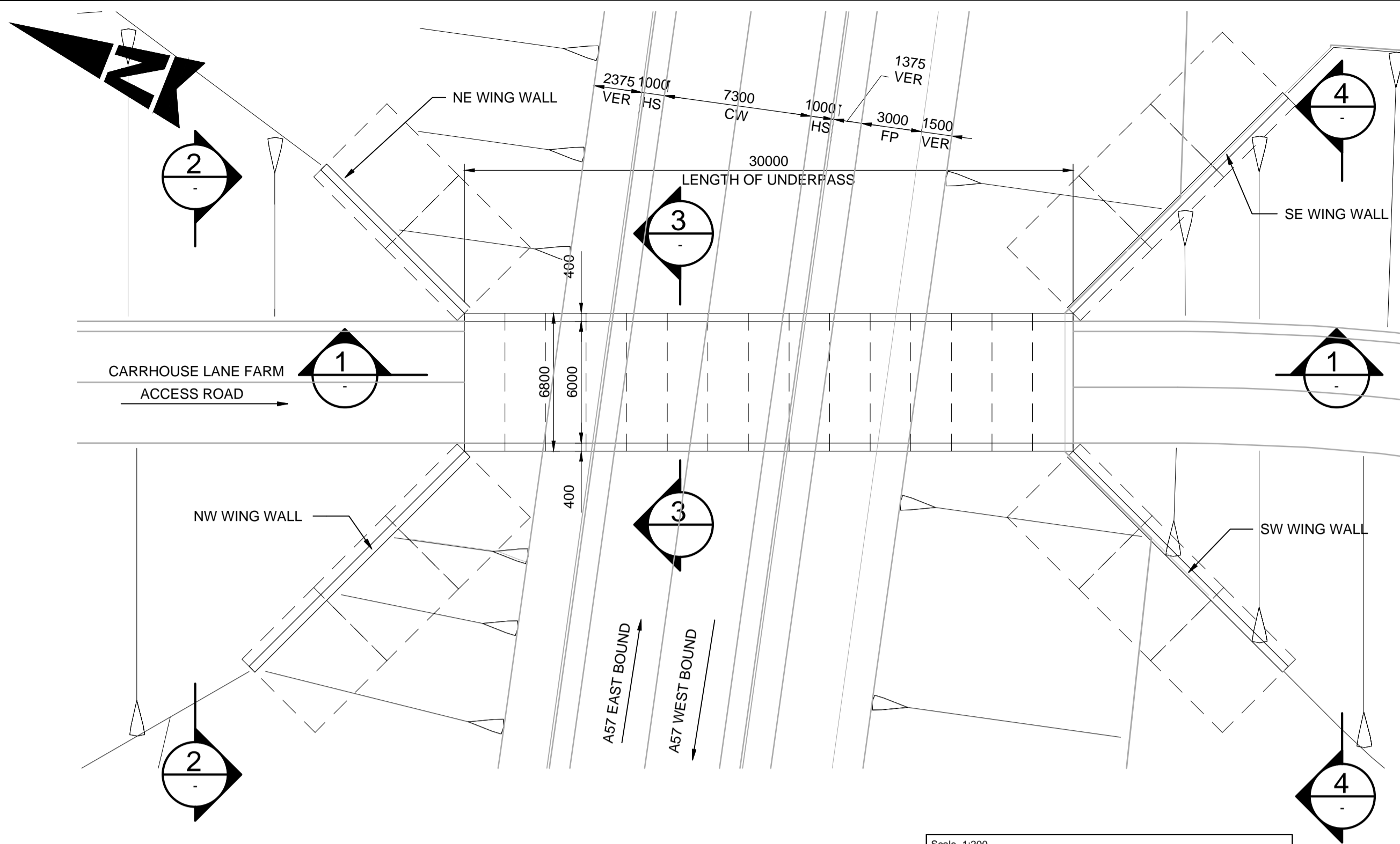
Drawing Number	Originator	Volume
HE551473	BBA	LDC
A57_AL_SCHEME	DR	ZL
		020733

Location	Type	Role	Number

Scale	Original Size	Rev
AS SHOWN @ A1	A1	P02

DO NOT SCALE

Millimetres



- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - THESE PLANS SHOULD BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1).
 - THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE DCO BOUNDARY OR THE RELEVANT LIMITS OF DEVIATION, AND SUBJECT TO THE REQUIREMENTS OF SCHEDULE 2 OF THE DEVELOPMENT CONSENT ORDER (TR010034/APP/3.1).

- ABBREVIATIONS:**
- SQ - SQUARE
 - SK - SKEW
 - FGL - FINISH GROUND LEVEL
 - EGL - EXISTING GROUND LEVEL
 - HS - HARD STRIP
 - FP - FOOTPATH
 - THK - THICK
 - CH - CHAINAGE
 - HS - HARD STRIP
 - CW - CARRIAGEWAY
 - VER - VERGE
 - NW - NORTH WEST
 - NE - NORTH EAST
 - SE - SOUTH EAST
 - SW - SOUTH WEST
 - TYP - TYPICAL
 - DIA - DIAMETER
 - m - METRES
 - RC - REINFORCED CONCRETE

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Status	Revision	Issue Date
Description		
Status	Revision	Issue Date
Description		
Status	Revision	Issue Date
Description		
Status	Revision	Issue Date
Description		
DCO APPLICATION		
Status	Revision	Issue Date
A4	P01	14/05/21
Description		
S51 ADVICE		
Status	Revision	Issue Date
A4	P02	17/11/21

Drawing Suitability	Status
DCO APPLICATION	A4



Scheme Name
A57 LINK ROADS

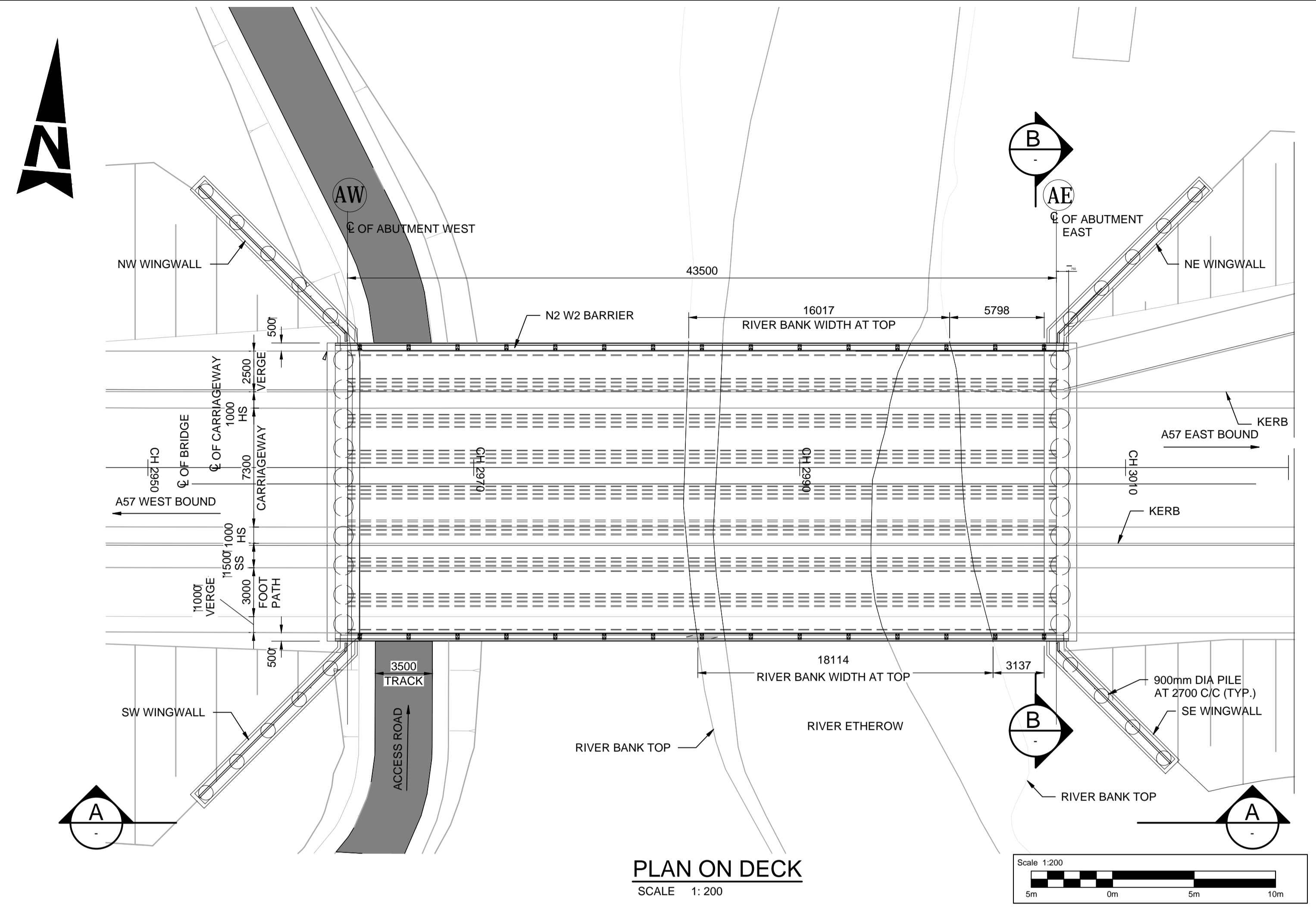
Drawing Title
STRUCTURE DETAILS
CARRHOUSE LANE UNDERPASS
REGULATIONS 5(2)(o) & 6(2)
SHEET 4 OF 5

PINS Ref No: TR010034/APP/2.7

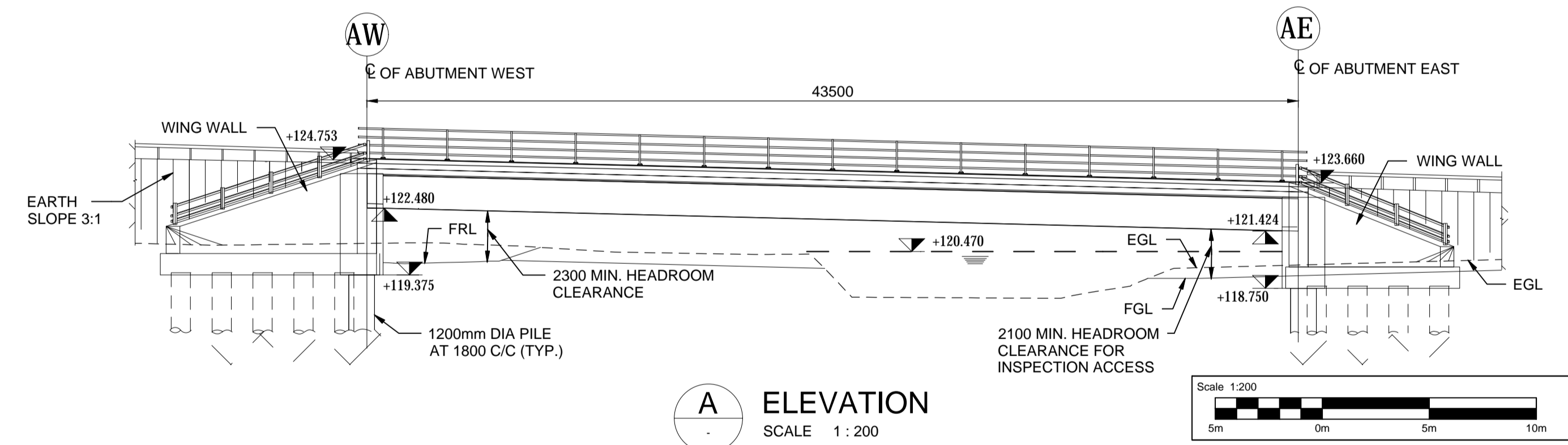
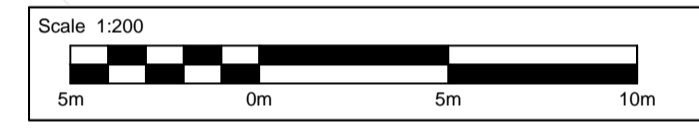
Drawing Number	Originator	Volume
HE551473	BBA	LDC
Location		
A57_AL_SCHEME · DR · ZL · 020734		
Scale	Original Size	Rev
AS SHOWN @ A1	A1	P02

DO NOT SCALE

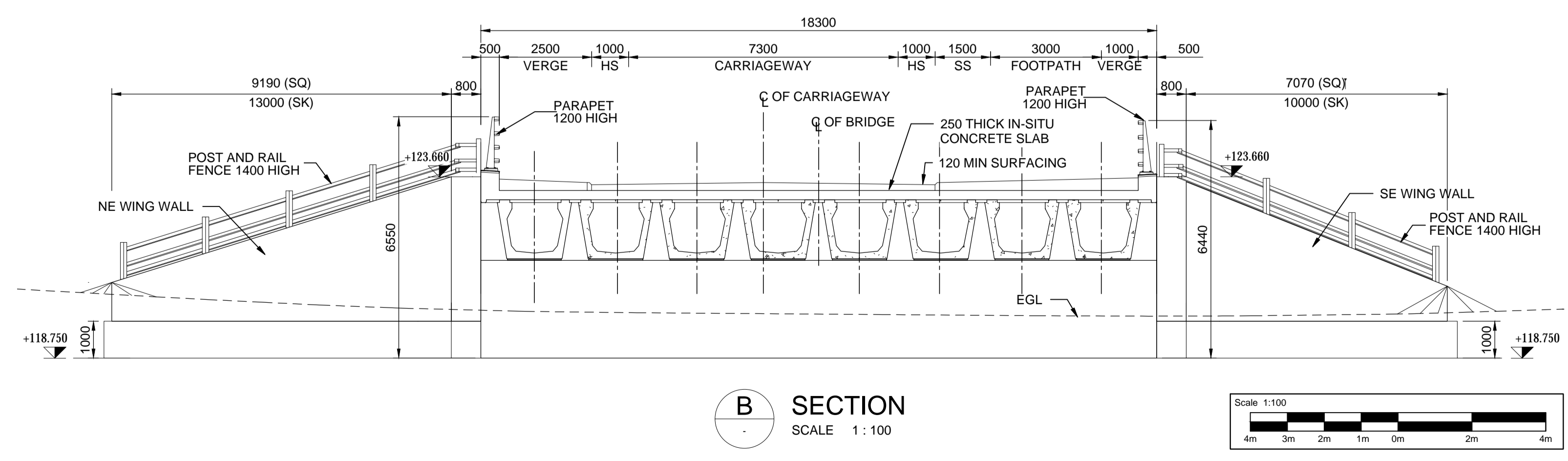
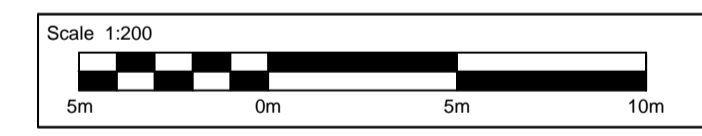
Millimetres
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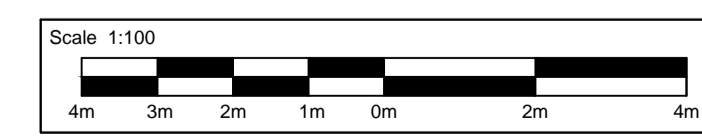
PLAN ON DECK
SCALE 1:200



ELEVATION
SCALE 1:200



SECTION
SCALE 1:100



- NOTE:**
- ALL DIMENSIONS ARE IN MILLIMETRES; ALL LEVELS AND CHAINAGES ARE IN METRES UNLESS NOTED OTHERWISE.
 - FULL LENGTH OF PILES NOT SHOWN.
 - DRAINAGE NOT SHOWN
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 - HS - HARD STRIP
 - SS - SEPARATION STRIP
 - VER - VERGE
 - NW - NORTH WEST
 - NE - NORTH EAST
 - SE - SOUTH EAST
 - SW - SOUTH WEST
 - TYP - TYPICAL
 - DIA - DIAMETER
 - m - METRES

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Description	Status	Revision	Issue Date
DCO APPLICATION	A4	P01	14/05/21
S51 ADVICE	A4	P02	17/11/21

Drawing Suitability	Status
DCO APPLICATION	A4



Scheme Name
A57 LINK ROADS

Drawing Title
STRUCTURE DETAILS
RIVER ETHEROW BRIDGE
REGULATIONS 5(2)(o) & 6(2)
SHEET 5 OF 5

PINS Ref No: TR010034/APP/2.7

Drawing Number Scheme	Originator	Volume
HE551473	BBA	LDC
A57_AL_SCHEME		
Location	Type	Role
AS SHOWN @ A1	DR	ZL
Original Size	Rev:	
A1	P02	

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